

The diagram illustrates the architecture of an email system. It consists of three main components: a Standard email client (101), an Email Server (102), and the Internet (103).

The Standard email client (101) is shown as a box at the bottom. It contains an "Inbox" (102a) and an "SMTP server" (102b). The client is labeled "Standard email client, i.e. Outlook or Netscape".

The Email Server (102) is shown as a box in the middle. It contains an "Inbox" (102a) and an "SMTP server" (102b). The server is labeled "Email Server".

The Internet (103) is shown as a cloud at the top.

The flow of data is as follows:

- The Standard email client (101) connects to the Email Server (102) via a line labeled "User's client connects to SMTP server in order to send email to the Internet."
- The Standard email client (101) retrieves email and stores it in its own client (102).
- The Email Server (102) stores email in the user's inbox (102a).
- The Email Server (102) connects to the Internet (103) via a line labeled "Mail sent to the Internet".
- The Internet (103) receives mail from the Internet (103) and sends it to the Email Server (102) via a line labeled "Mail received from the Internet".

The diagram illustrates a system for detecting and rejecting spam email. The components and their interactions are as follows:

- Standard email client, i.e. Outlook or Netscape (101):** The user's email client.
- User retrieves email and stores it in own client:** The process of downloading email from the server.
- Inbox (104a):** The local mailbox on the client.
- SMTP server stores email in user's inbox:** The process of delivering email to the client's inbox.
- Email Server (104):** The central server for email management.
- capture sender's email address for later analysis:** A process to identify potential spam sources.
- capture recipient email address for later analysis:** A process to identify potential spam targets.
- SMTP Server (104b):** The server responsible for sending email.
- reject email considered as spam for the recipient:** A process to block unwanted email.
- Mail received from the Internet:** Incoming email from the Internet.
- Mail sent to the Internet:** Outgoing email to the Internet.
- Internet (103):** The global network for email communication.
- Rejected email (107):** The final destination for spam.

The flow of the system is as follows:

- The user's email client (101) connects to the SMTP server (104b) to retrieve email.
- The SMTP server (104b) stores the email in the user's inbox (104a).
- The email server (104) captures the sender's and recipient's email addresses for later analysis.
- The email server (104) rejects email considered as spam for the recipient.
- The email server (104) sends mail to the Internet (103).
- The Internet (103) receives mail from the email server (104).
- The Internet (103) sends mail to the SMTP server (104b).
- The SMTP server (104b) sends mail to the user's inbox (104a).
- The user's email client (101) retrieves the mail from the inbox (104a).
- The rejected email (107) is sent to the Internet (103).

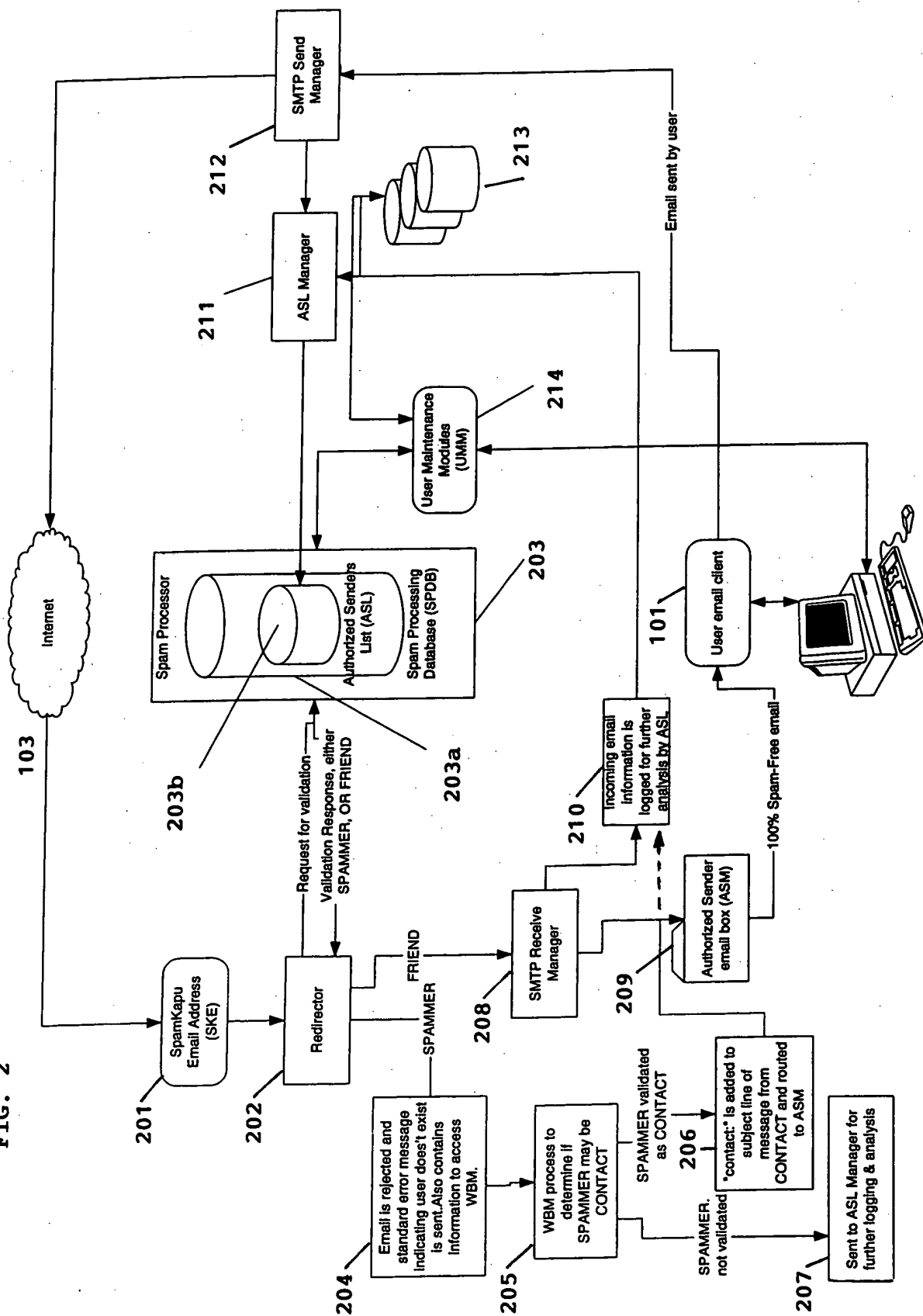
[illegible]

FIG. 3A (PRIOR ART)

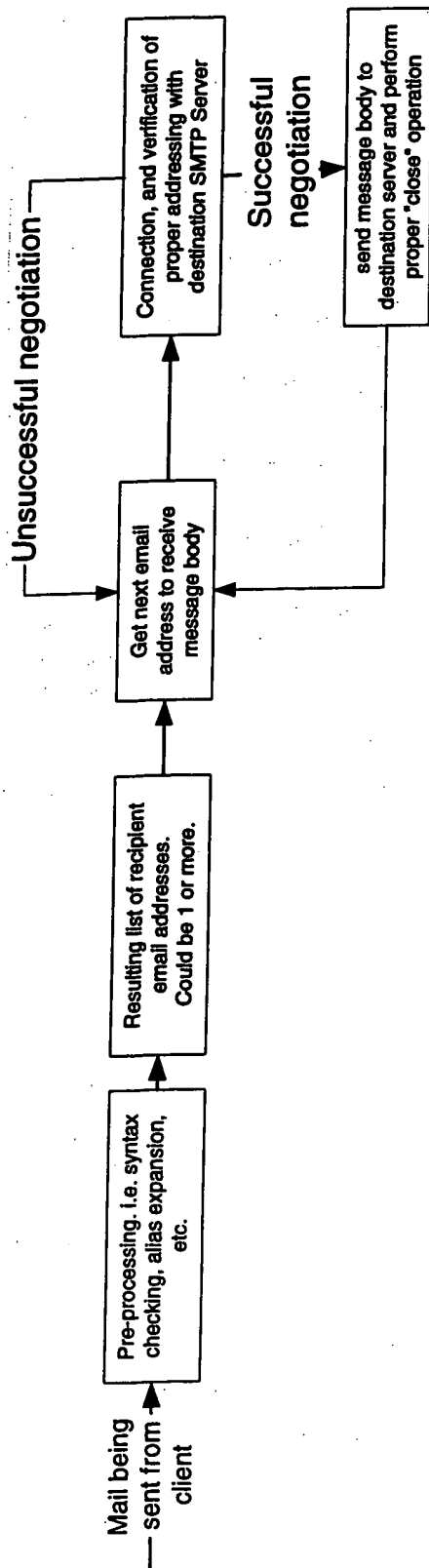


FIG. 3B

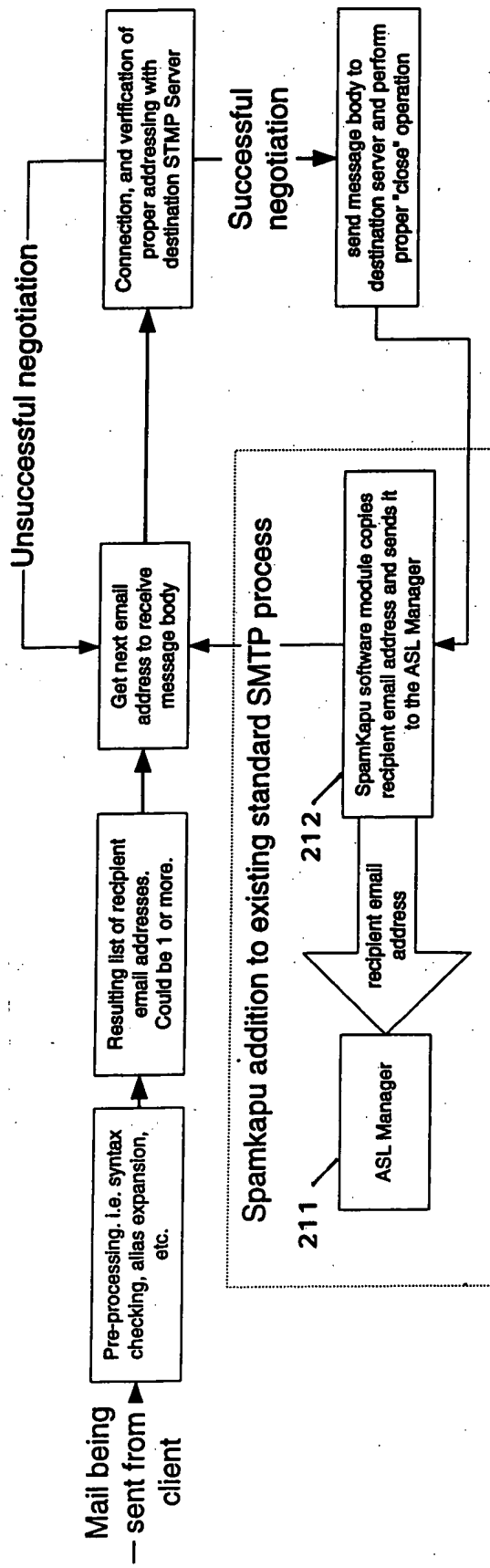


FIG. 4A (PRIOR ART)

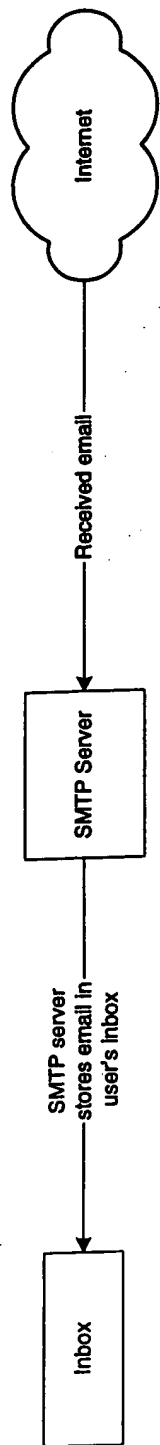


FIG. 4B

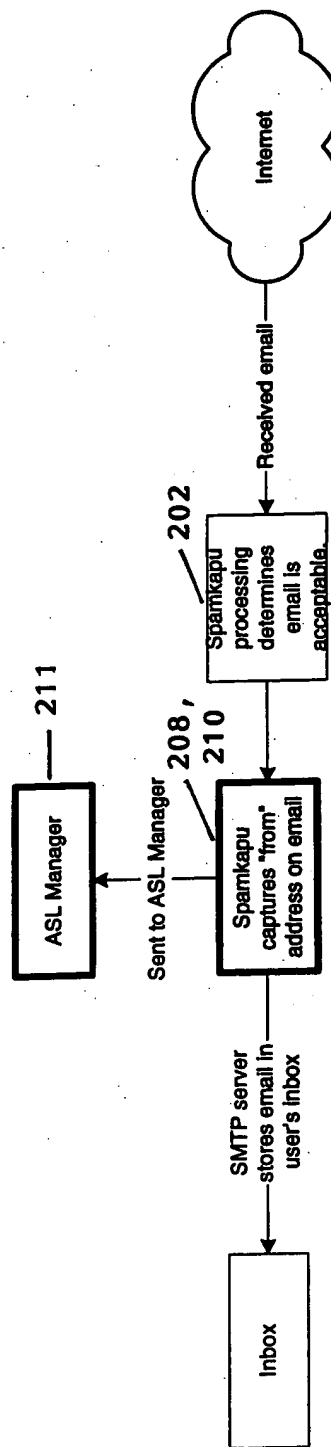


FIG. 5

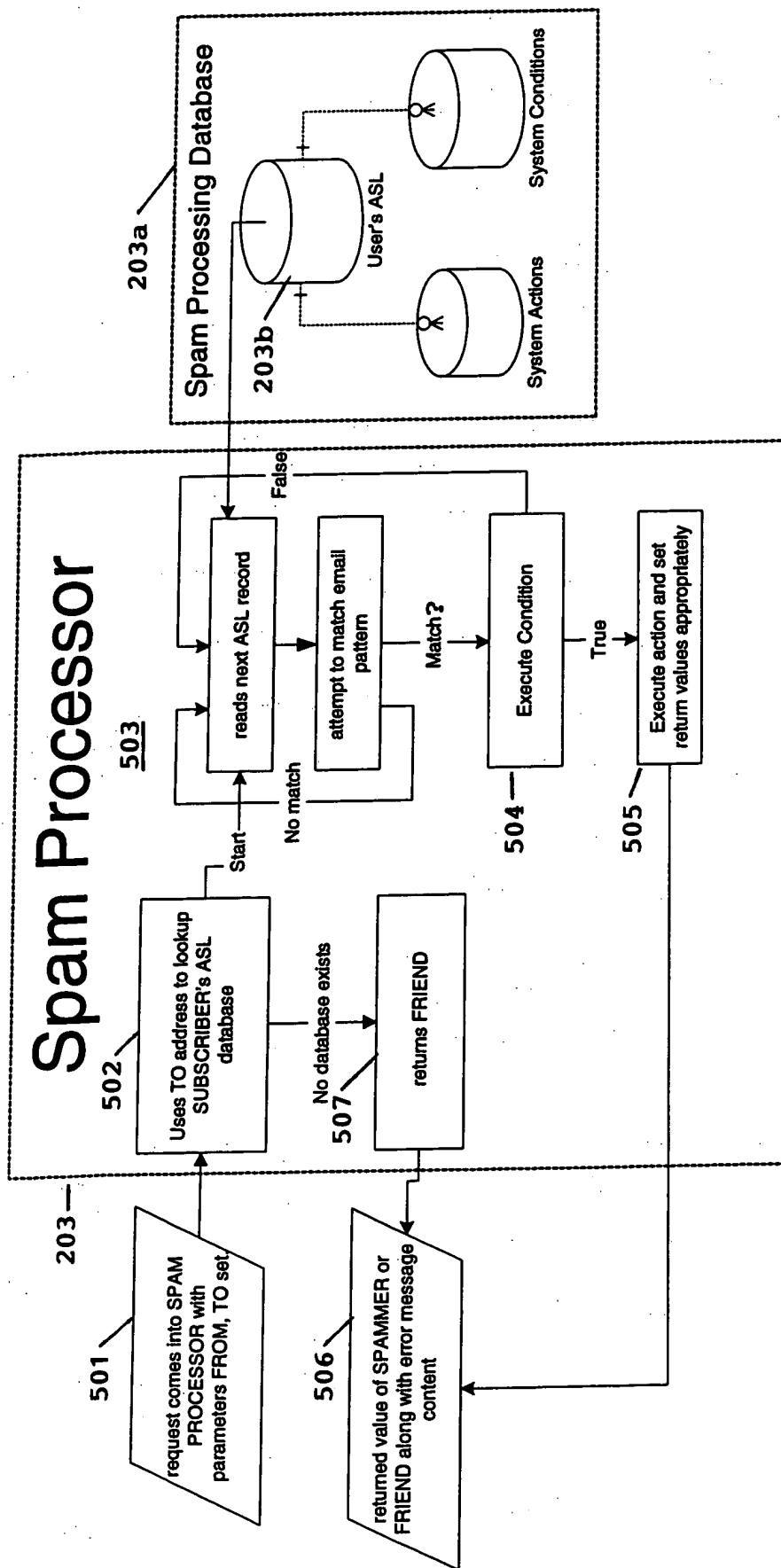
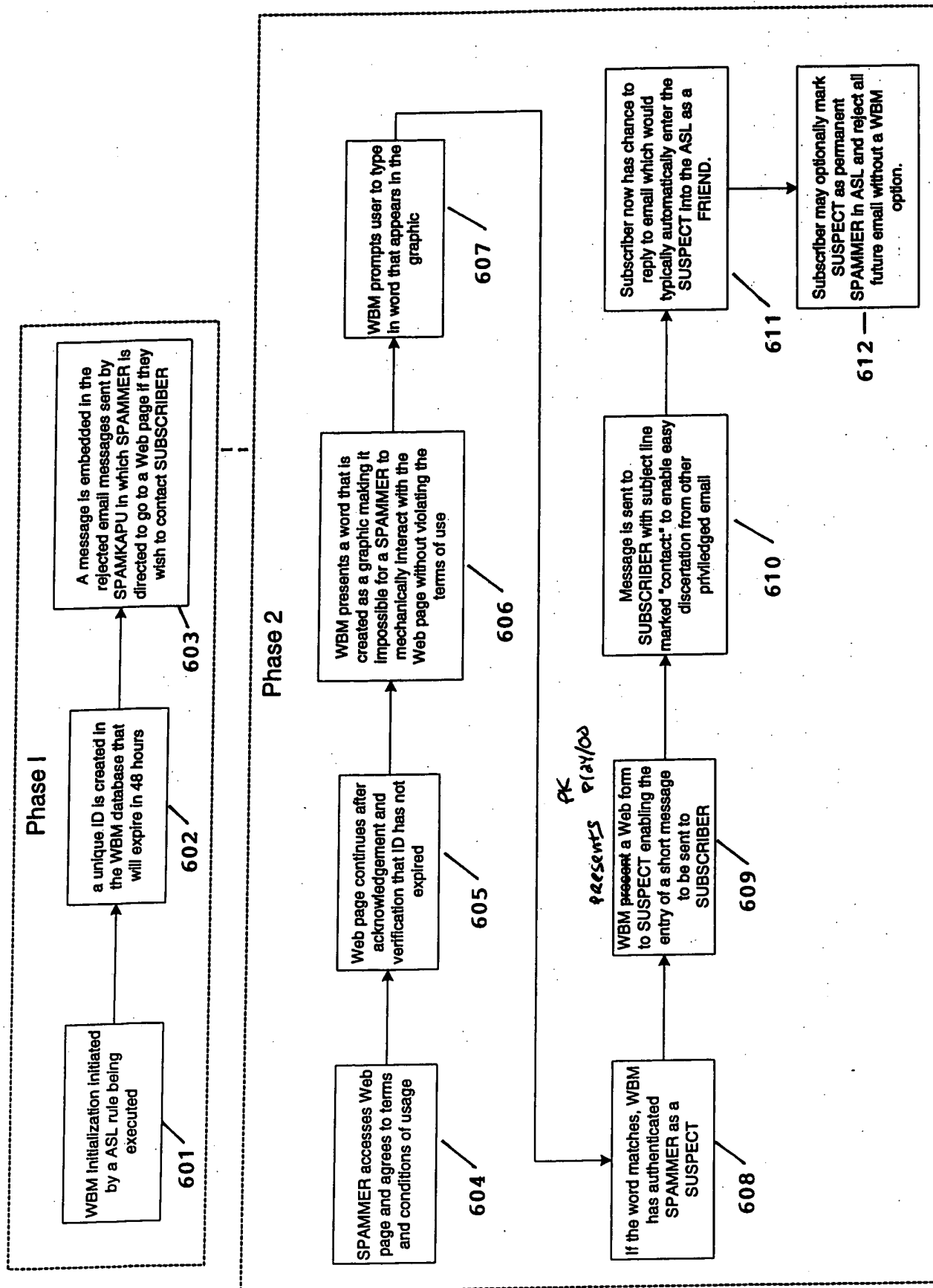


FIG. 6



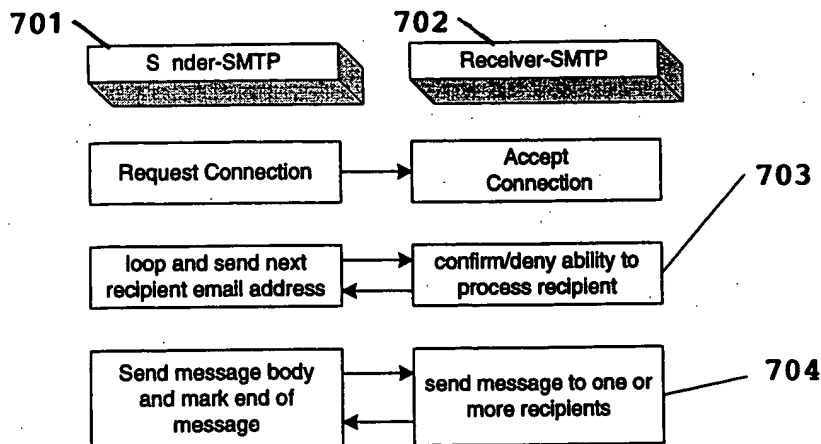


FIG. 7A

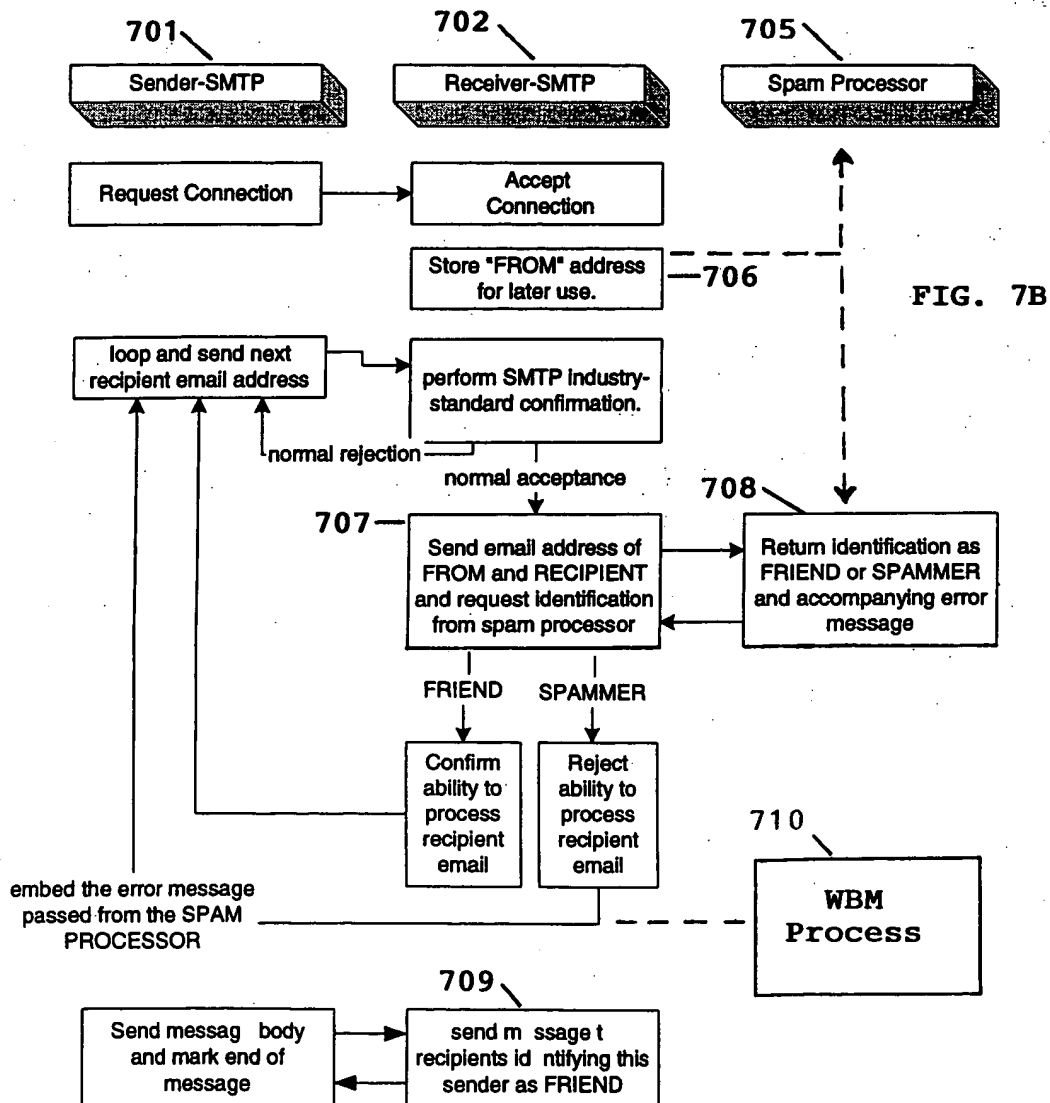


FIG. 7B

FIG. 8

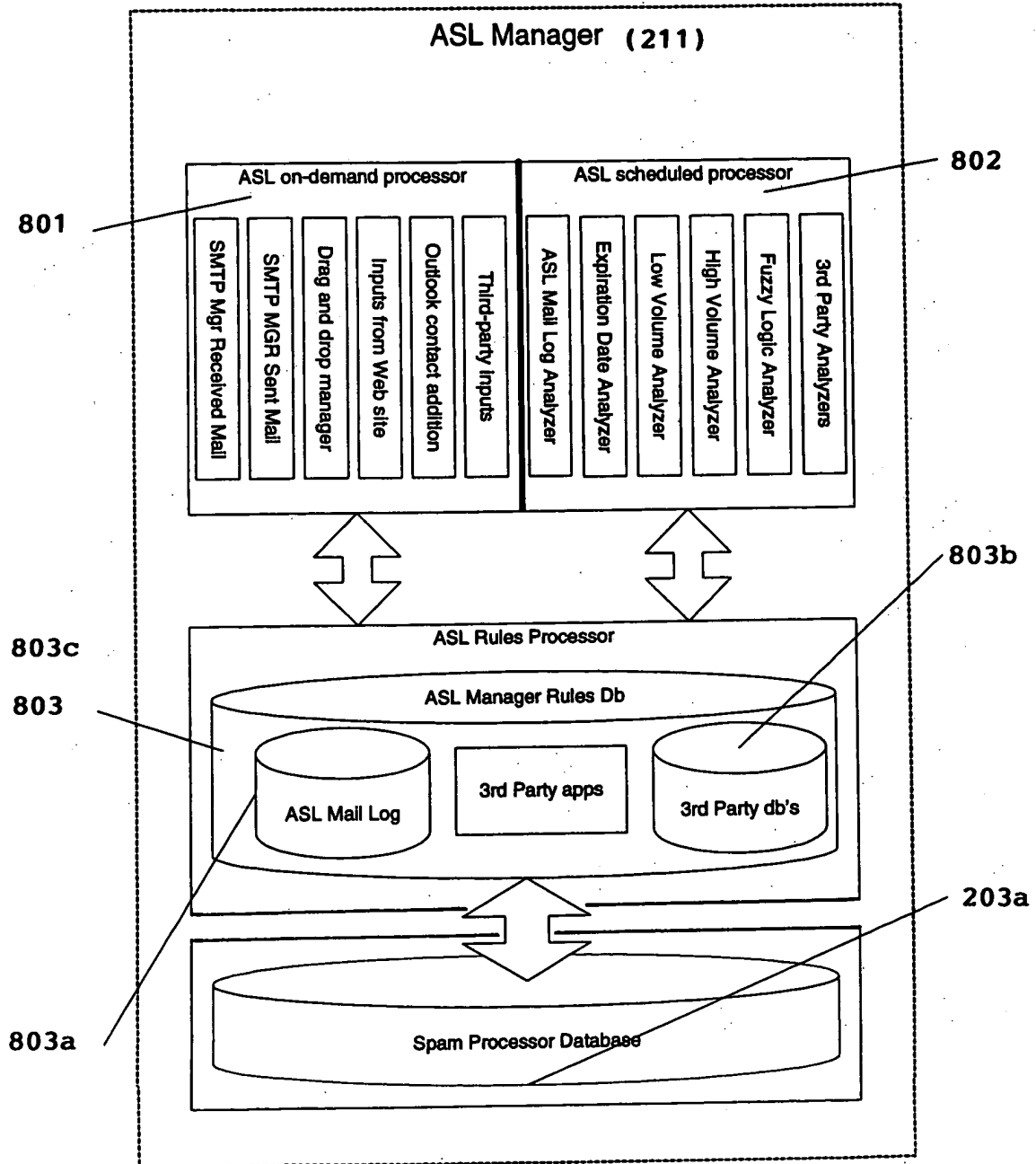




FIG. 9

